

**AMENDMENTS TO THE CLAIMS**

Please amend the claims as indicated below.

Please cancel claims 27, 28, 38, and 39 without prejudice or disclaimer of the subject matter recited therein.

**Listing of Claims:**

Claims 1-22 (canceled)

Claim 23 (currently amended): An apparatus comprising:

an at least partially automated microscope including at least one configurable subassembly having at least one element, the at least one element having a plurality of positions; and

a computer associated with the microscope, the computer including:

a display configured to depict a plurality of user interfaces, each user interface including at least three areas, a first area of a first user interface depicting a selection of at least three modules including a first module providing a configuration of the microscope, a second module providing a fine tuning and a third module providing an operation of the microscope,

an input device, and

a database configured to store respective configurations of the at least one element for the at least one configurable subassembly.

Claim 24 (previously presented): The apparatus as recited in claim 23 wherein the at least one configurable subassembly comprises at least one of a motorized tube, an incident light axis, an objective nosepiece, a Z-drive for setting a focus, an X/Y-stage, a lamp, a condenser and a control knob.

Claim 25 (previously presented): The apparatus as recited in claim 23 wherein the at least one configurable subassembly is automated.

Claim 26 (previously presented): The apparatus as recited in claim 25 wherein the at least one configurable subassembly comprises at least one of a motorized tube, an incident light axis, an objective nosepiece, a Z-drive for setting a focus, an X/Y-stage, a lamp, a condenser, and a control knob.

Claims 27-28 (cancelled)

Claim 29 (currently amended): The apparatus as recited in claim 23[[28]] wherein a second area of the first user interface comprises a tree depicting a plurality of possibilities of a selected module of the at least three modules.

Claim 30 (previously presented): The apparatus as recited in claim 29 wherein a third area of the first user interface is configured to enable the user to make a selection among the possibilities of the selected module.

Claim 31 (previously presented): The apparatus as recited in claim 30 wherein the third area is configured to depict the at least one configurable subassembly and respective elements of the selected module.

Claim 32 (previously presented): The apparatus as recited in claim 23 wherein the computer is configured to calculate a process vector based on a first configuration of the at least one element and store the calculated process vector in a storage unit in a stand of the microscope.

Claim 33 (previously presented): The apparatus as recited in claim 32 wherein the stand of the microscope includes an integrated second display configured to depict a method determined by the process vector and based on the first configuration, and to provide a warning to a user in a case of an incorrect combination of a selected element of the at least one element.

Claim 34 (currently amended): A method for configuring an at least partially automated microscope including at least one configurable subassembly having at least one element having a plurality of positions, the method comprising:

depicting a first user interface and a second user interface on a display of a computer associated with the microscope, the first and second user interfaces each including at least three respective areas, a first area of the first user interface depicting a selection of at least three modules including a first module providing a configuration of the microscope, a second module providing a fine tuning and a third module providing an operation of the microscope;

selecting a first module for configuring the microscope;

selecting the at least one configurable subassembly and determining the at least one element so as to configure the at least one subassembly;

performing fine tuning of the at least one configured subassembly; and

starting a measuring procedure with the microscope.

Claim 35 (previously presented): The method as recited in claim 34 wherein the at least one configurable subassembly comprises at least one of a motorized tube, an incident light axis, an objective nosepiece, a Z-drive for setting a focus, an X/Y-stage, lamp, a condenser and a plurality of control knobs.

Claim 36 (previously presented): The method as recited in claim 34 wherein the at least one configurable subassembly is automated.

Claim 37 (previously presented): The method as recited in claim 36 wherein the at least one configurable subassembly comprises at least one of a motorized tube, an incident light axis, an objective nosepiece, a Z-drive for setting a focus, an X/Y-stage, a lamp, a condenser, and a control knob.

Claims 38-39 (cancelled)

Claim 40 (currently amended): The method as recited in claim 34[[39]] wherein a second area of the first user interface comprises a tree depicting a plurality of possibilities of a selected module of the at least three modules.

Claim 41 (currently amended): The method as recited in claim 40 wherein a third area of the first user interface is configured to enable the user to make a selection among the possibilities of the selected module.

Claim 42 (currently amended): The method as recited in claim 41 wherein the third area of the first user interface[[s]] is configured to depict the at least one configurable subassembly and respective elements of the selected module.

Claim 43 (previously presented): The method as recited in claim 34 further comprising:  
calculating, using the computer, after the configuring of the at least one configurable subassembly, a process vector; and  
storing the calculated process vector in a storage unit in a stand of the microscope.

Claim 44 (previously presented): The method as recited in claim 43 wherein the stand of the microscope includes an integrated second display configured to depict a method determined by the process vector and based on the first configuration, and to provide a warning to a user in a case of an incorrect combination of a selected element of the at least one element.